

Joan PASCUAL RIBES, 19 years old. Spanish Nationality
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JPR

*Mathematics and Engineering Physics student. Polymath.
Passionate about knowledge. Hungry learner.*

Education	
2023-Present	Degree in Engineering Physics , Polytechnic University of Catalonia. Degree in Mathematics , Polytechnic University of Catalonia. CFIS (Interdisciplinary Higher Education Centre)
Skills	
Programming	C++, Intermediate. Python, Intermediate.
Languages	English (Advanced) C1 certificate, <i>Trinity College London</i> . Spanish (Native). Catalan / Valencian (Native). C2 certificate. German (Basic) Currently studying B1 level. French (Basic) A2 certificate.
Teamwork and Communication	I enjoy working in teams and learning from others. In collaborative research and programming projects, I've effectively communicated and contributed to achieving goals.
Academic Achievements	
Double Degree Mark	9.17 / 10. Honours degree in Calculus I, Physics I, Biophysics, Physics II and Linear Algebra.
PAU Mark	13.832 / 14.
High School Mark	10 / 10.
Work Experience	
Barcelona Introduction to Mathematical Research	<i>July, 2024.</i> At the CRM (Centre de Recerca Matemàtica), in a collaboration between the universities UAB, UB and UPC. A month of research in the field of Algebra.
Main Interests	
Competitive Programming	I enjoy solving hard problems while learning fast algorithms and problem-solving strategies.
Trading and Markets	The connection it has to the fascinating academic fields of probability, statistics, and game theory particularly appeals to me.
Computer Science	I am truly interested in AI, computer vision and machine learning, specially when it comes to their relation with Mathematics.
Olympiad Experience	
Chemistry	Participation in the Spanish National Chemistry Olympiad (2023).
Physics	Autonomic Physics Olympiad (Valencia). (Third place) (2023).
Mathematics	Winner of Cangur Olympiad (Valencia) (2023).
Catalan Language	Winner of two consecutive autonomic contests (2022 & 2023).

Personal Projects

Ecosystem Simulation and Study	In collaboration with my partner Eki Gonzalez, we have developed a magnificent tool for understanding and simulating complex ecosystem dynamics. In addition, we have also conducted a study on the results presented by the program. Link to the project .
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Hobbies and Activities

Literature	Awarded in some literature contests. I genuinely enjoy poetry and philosophical essays.
Music	I have played in a traditional band and studied saxophone and piano at the conservatory.
Webpage creation	Currently learning the basics of HTML and starting my personal website .

The most important thing for me is to gain experience and learn new concepts while facing challenging problems.